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(54) Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS OF NEUROENDOCRINE LUNG CANCER

(57) Abstract: This invention relates to methods and compositions for the diagnosis of neuroendocrine lung cancers. In particular, the invention concerns the use of cDNA microarrays to facilitate the differential diagnosis of neuroendocrine tumor types.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34787

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; C07H 21/04
 US CL : 435/6 91.2; 536/23.1, 24.3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 435/6 91.2; 536/23.1, 24.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 STN:Medline Biosis Caplus, OMIM, PubMed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BANGUR et al. Identification of genes over-expressed in small cell lung carcinoma using suppression subtractive hybridization and cDNA microarray expression analysis. <i>Oncogene</i> . 2002, Vol. 21, pages 3814-3825, entire document.	1-3, 9-11, 20-21
Y		4-8, 12-19, 22-29
X	GUGGER et al. Quantitative expansion of structural genomic alterations in the spectrum of neuroendocrine lung carcinomas. <i>Journal of Pathology</i> . 2002, Vol. 196: pages 408-415, entire document.	1-3, 6-12, 15-27
Y		4, 5, 13, 14, 28, and 29
X	VIRTANEN et al. Integrated classification of lung tumors and cell lines by expression profiling. <i>Proc. Natl. Acad. Sci.</i> September 2002, Vol. 99, pages 12357-12362, entire document.	1-3, 6-12, 15-27
Y		13, 14, 28, and 29
Y	YAO et al. Human gamma-glutamyl hydrolase: CLoning and characterization of the enzyme expressed in vitro. <i>Proc. Natl. Acad. Sci., USA</i> . 17 September 1996, Vol. 93, pages 10134-10138, entire document.	4,5, 13, 14, 28, and 29

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SCHENA et al. Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes. Proc. Natl. Acad. Sci., USA. October 1996, Vol. 93, pages 10614-10619, entire document..	13, 14, 28, and 29